

February 10, 2023

Vascular Solutions, Inc. c/o James Chapman Regulatory Affairs Associate 6464 Sycamore Court Minneapolis, Minnesota 55369

Re: K072117

Trade/Device Name: Thrombix<sup>™</sup> Patch, Thrombin Hemostasis Patch

Regulatory Class: Unclassified

Product Code: QSX

#### Dear James Chapman:

The Food and Drug Administration (FDA) is sending this letter to notify you of an administrative change related to your previous substantial equivalence (SE) determination letter dated October 5, 2007. Specifically, FDA is updating this SE Letter because FDA has better categorized your device technology under product code QSX.

Please note that the 510(k) submission was not re-reviewed. For questions regarding this letter please contact Julie Morabito, OHT4: Office of Surgical and Infection Control Devices, 240-402-3839, Julie.Morabito@fda.hhs.gov.

Sincerely,

Julie A. Morabito -

S

Julie Morabito, Ph.D.
Assistant Director
DHT4B: Division of Infection Control
and Plastic Surgery Devices
OHT4: Office of Surgical
and Infection Control Devices
Office of Product Evaluation and Quality
Center for Devices and Radiological Health

#### DEPARTMENT OF HEALTH & HUMAN SERVICES





Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

Vascular Solutions, Inc. % Mr. James Chapman Regulatory Affairs Associate 6464 Sycamore Court Minneapolis, Minnesota 55369

OCT 5 2007

Re: K072117

Trade/Device Name: Thrombix <sup>™</sup> Patch, Thrombin Hemostasis Patch

Regulatory Class: Unclassified

Product Code: FRO Dated: July 30, 2007

Received: August 01, 2007

# Dear Mr. Chapman:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally

## Page 2 - Mr. James Chapman

marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0115 Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (240) 276-3150 or at its Internet address <a href="http://www.fda.gov/cdrh/industry/support/index.html">http://www.fda.gov/cdrh/industry/support/index.html</a>.

Sincerely yours.

Mark N. Melkerson

Director

Division of General, Restorative and Neurological Devices

Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure

# **Indications for Use Statement**

510(k) Number:	KO7	12117		•
Device Name:	Thrombia	x <sup>™</sup> Patch throm	bin hemostasis patch	,
Indications for Use	e:			
The Thrombix <sup>™</sup> Pat and is indicated for catheters or tubes.	ch is applied the control of	topically and is it surface bleeding	indicated as an adjunct to mg from vascular access sites	nanual compression s and percutaneous
Prescription Use (Part 21 CFR 801 St		AND/OR	Over-The-Counter Use _ (21 CFR 801 Subpart C)	
	(PLEASE I	DO NOT WRIT	E BELOW THIS LINE – ER PAGE IF NEEDED)	<b>e</b>
D aı	Division Sign ivision of Ge nd Neurolog	-Off) eneral, Restorat	tive,	

# OCI 5 2007 510(k) Summary (As required by 21 CFR 807.92(c))

510(k) Number: <u>K072(17</u>
Page 1 of 3

Date Prepared: July 30, 2007

#### **Submitter Information**

Submitter's Name:

Vascular Solutions, Inc.

Address:

6464 Sycamore Court

Minneapolis, MN 55369

Establishment Registration: 2134812

Contact Person:

James Chapman

Regulatory Affairs Associate

Phone: (763) 656-4380 Fax: (763) 656-4253

#### **Device Information**

Trade Name:

Thrombix<sup>™</sup> Patch, Thrombin Hemostasis Patch

Common Name:

Topical hemostat

Classification Name: Unclassified

Product Code:

FRO

Regulation:

Not Applicable

#### **Predicate Device(s)**

The predicate devices are the currently marketed D-Stat® Dry Topical Hemostat (K030836) and D-Stat® Dry 3x3 (K040510).

# **Device Description**

The Thrombix<sup>™</sup> Patch thrombin hemostasis patch consists of a lyophilized patch containing bovine derived thrombin as an aid to hemostasis (King Pharmaceuticals license number 0977), sodium carboxymethylcellulose (CMC), and calcium chloride.

The Thrombix<sup>™</sup> Patch is applied directly over the source of bleeding, creating a physical barrier to blood flow through the application of adjunctive manual compression. The lyophilized components (thrombin, CMC, and calcium chloride) establish an environment in which a natural blood clot can build and form a physical barrier to bleeding.

Vascular Solutions, Inc. Thrombix<sup>™</sup> Patch Thrombin Hemostasis Patch 510(k) Pre-market Notification July 30, 2007

K072117

Vascular Solutions, Inc.
Thrombix<sup>™</sup> Patch Thrombin Hemostasis Patch
510(k) Summary
Page 2 of 3

The thrombin facilitates hemostasis by enhancing the surface-activated clotting cascade through enzymatic cleavage and conversion of fibrinogen to fibrin.

#### Intended Use/Indications for Use

The Thrombix<sup>™</sup> Patch is applied topically and is indicated as an adjunct to manual compression for the control of surface bleeding from vascular access sites and percutaneous catheters or tubes.

#### **Summary of Non-Clinical Testing**

The Non-Clinical Testing included assessment of the physical properties of the Thrombix Patch and its ability to achieve its intended use. Bench testing of the physical properties of the Thrombix Patch confirmed the suitability of the device for its intended use. The following physical tests were performed:

- Moisture Content Testing
   Thrombin Activity Testing post 4 hours pot-life
- Wetting Time
- pH

A biocompatibility assessment of the device was also performed. The purpose of the biocompatibility assessment was to ensure that biocompatibility had been established for the device. The device is biocompatible based on the following testing:

- MEM Elution
- Intracutaneous Injection Test
- Systemic Injection Test
- Kligman Skin Sensitization

The results of the tests confirmed the suitability of the device for its intended use.

K072117

Vascular Solutions, Inc.
Thrombix<sup>™</sup> Patch Thrombin Hemostasis Patch
510(k) Summary
Page 3 of 3

# **Summary of Clinical Testing**

No human clinical testing was required for this device.

# **Statement of Equivalence**

The Thrombix<sup>™</sup> Patch is substantially equivalent to the currently marketed D-Stat<sup>®</sup> Dry and D-Stat<sup>®</sup> Dry 3x3 hemostatic bandages based on a comparison of the indications for use and the technological characteristics of the device.

#### Conclusion

The Thrombix<sup>™</sup> Patch is substantially equivalent to the currently marketed D-Stat<sup>®</sup> Dry and D-Stat<sup>®</sup> Dry 3x3 hemostatic bandages based on the technological characteristics and sterilization methods. Bench tests confirmed the suitability of the device for its intended use.